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"Television Broadcast Identicalness Determination System"

[Claim 1]

A television broadcast identicalness determination system wherein two television broadcast signals to be compared are each separated into an audio signal and a video signal, a predetermined frequency bandwidth component alone is extracted from the video signal, the extracted signal is subjected to rectification and integration, the resulting signal is sampled at timings of a vertical synchronization signal of its corresponding video signal so as to perform A/D conversion, and the obtained data are compared to one another so as to determine identicalness.

[Means for Solving the Problems]

The present invention was proposed taking into account the above-noted points, and is directed to providing a system for enabling accurate determination of identicalness of two television broadcasts. It should be noted that the television broadcast identicalness determination system according to the present invention is not limited to use for the above-noted broadcast program check system, and can also be used for detecting a received channel in an audience rating measurement system or the like.

To achieve the above object, according to one aspect, the present invention provides a television broadcast identicalness determination system wherein two television broadcast signals to be compared are each separated into an audio signal and a video signal, a predetermined frequency bandwidth component alone is extracted from the video signal, the extracted signal is subjected to rectification and integration, the resulting signal is sampled at timings of a vertical synchronization signal of its corresponding video signal so as to perform A/D conversion, and the obtained data are compared to one another so as to determine identicalness.

[Achieved Effects]

According to the television broadcast identicalness determination system of the present invention, because signal levels of predetermined frequency bandwidth components of the audio signals within the television signals are digitized and compared, accurate determination can be carried out using a computer or the like. Further, because the vertical synchronization signal included in the video signal is used for the sampling

timing for digitization, data amount can be minimized, thereby enabling to achieve a large cost reduction of the processing apparatus.

[Advantages of the Invention]

According to the television broadcast identicalness determination system of the present invention as described above, because two television broadcast signals to be compared are each separated into an audio signal and a video signal, a predetermined frequency bandwidth component alone is extracted from the video signal, the extracted signal is subjected to rectification and integration, the resulting signal is sampled at timings of a vertical synchronization signal of its corresponding video signal so as to perform A/D conversion, and the obtained data are compared to one another so as to determine identicalness, the following advantages are accomplished:

a) As the processing is digital, accurate determination can be carried out using a computer or the like; and

b) As the vertical synchronization signal included in the video signal is used for the sampling timing for digitization, data amount can be minimized, thereby enabling to achieve a large cost reduction of the processing apparatus.

[Brief Description of the Drawings]

Fig. 1 is a configuration diagram showing one embodiment of a broadcast program check system to which the television broadcast identicalness determination system according to the present invention is applied.

Fig. 4 is a configuration diagram showing one embodiment in which the present invention is applied to a receiving channel determination apparatus in an audience rating measurement system.

[Fig. 1]

- | | |
|---|---------------------|
| 1 | receiver |
| 2 | data converter |
| 3 | computer |
| 4 | data combiner |
| 5 | video tape recorder |
| 6 | monitor |
| 7 | data converter |
| 8 | keyboard |

[Fig. 4]

input into 11	target broadcast signal
11	data converter
12	comparator
13	selected station controller
output from 13	channel data
14	receiver
15	data converter